

1. GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of MD 140 (Reisterstown Rd) and High Falcon Road in Baltimore County. The existing signal heads shall be replaced with LED signal heads and existing pedestrian signal heads with Countdown pedestrian signals. MD 140 (Reisterstown Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA six-phase, semi-actuated mode, with the MD 140 (Reisterstown Rd) approaches running concurrently. The northbound and southbound approaches of MD 140 (Reisterstown Rd) will continue to operate as normal. The Countdown pedestrian phase with audible pushbutton actuation shall be provided across the north leg of MD 140 (Reisterstown Rd) at High Falcon Road. The side street approach shall continue to operate as normal.
- A full-traffic-actuated, existing eight-phase controller with a proposed 2-wire Central Control Unit and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- SHA signal shop shall install APS central control unit into controller cabinet. The Contractor shall deliver the Central Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

4. APS will function as follows:

FOR MD 140 (REISTERSTOWN RD)

- When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will be Wait to cross Reisterstown at High Falcon
- When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #4 are as follows:

Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: (410) 321-2781

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Ed Rodenhizer
Chief, Traffic Signal Operations
410-787-7652

Mr. Mike Pasqualello
Assistant District Engineer - Utility
Phone: (410) 321-2841

Mr. Sonny Bailey
Chief Sign Shop
410-787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (pole mount) Pedestrian education R10-3(1) (Note: Sign to read "PUSHBUTTON TO CROSS REISTERSTOWN ROAD")	2 SF 2 EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	2 C.Y.
5001	Removal of existing permanent pavement line markings any width	250 L.F.
5005	12" white preformed thermoplastic pavement marking lines.	160 L.F.
5006	24" white preformed thermoplastic pavement marking lines.	45 L.F.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	120 L.F.
6002	5" concrete sidewalk.	250 S.F.
8001	12" LED signal head section.	21 EA
8002	2 wire Central Control unit	1 EA
8006	Adjust existing handhole to grade.	1 EA
8007	Audible/tactile pedestrian pushbutton station & signs.	2 EA
8008	Breakaway pedestal pole (ANY SIZE)	2 EA
8010	LED 16" countdown pedestrian signal head.	2 EA
8013	Remove and dispose of	1 EA
8018	Schedule 80 rigid PVC conduit up to 4" - trenched.	100 L.F.
8019	Detectable warning surface for curb ramps	40 S.F.
8023	Electrical cable - 2 conductor (No. 14 AWG).	600 L.F.
8025	Electrical cable - 5 conductor (No. 14 AWG).	600 L.F.
8026	Electrical cable - 7 conductor (No. 14 AWG).	100 L.F.

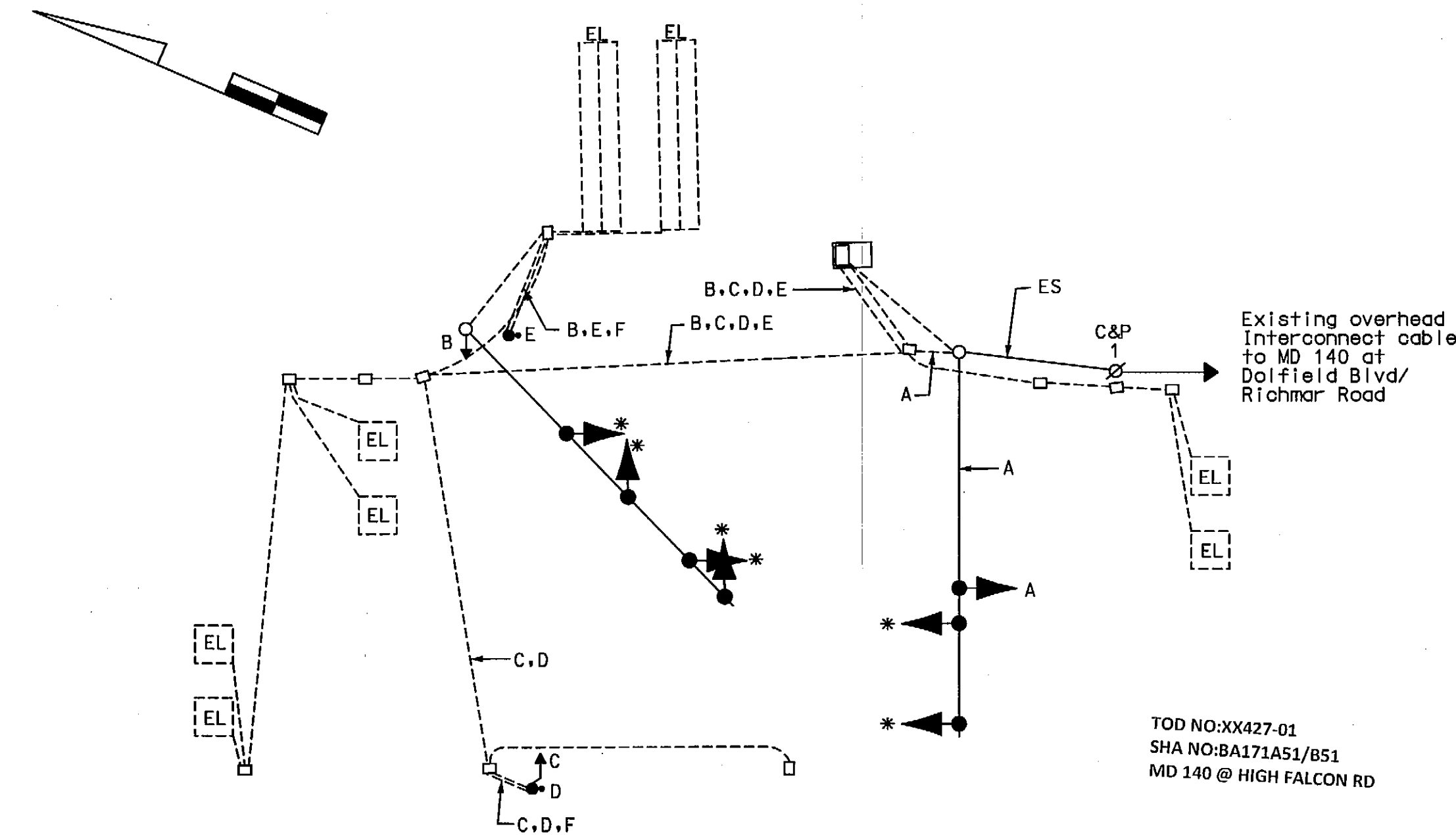
C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become the property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
PHASE 2 & 6	G	G	G	G	G	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	DW	DW
PHASE 4	R	R	R	R	R	G	G	DW	DW
4 CHANGE	R	R	R	R	R	Y	Y	DW	DW
PHASE 4 ALT	R	R	R	R	R	G	G	WK	WK
PED CLEAR / COUNTDOWN	R	R	R	R	R	G	G	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

D - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

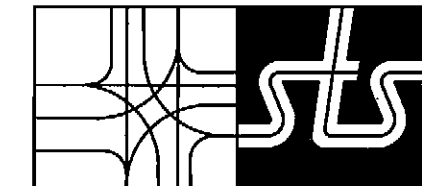
F - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

* - USE EXISTING WIRING

EL - EXISTING LOOP

ES - EXISTING OVERHEAD SERVICE

REVISION "E"



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400 Crofton Hwy., NW
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5714g1.dgn

T-235

PLOTTED: \$DATETIME\$
FILE: \$FILE\$



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 140 (REISTERSTOWN ROAD)
AND HIGH FALCON ROAD

OWINGS MILLS, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 4/8/09 CONTRACT NO. XX4275185

DESIGNED BY JAMES ALLEN JR. COUNTY BALTIMORE
DRAWN BY JAMES ALLEN JR. LOGMILE 03014007.18
CHECKED BY TMS NO. J402
F.A.P. NO. TOD NO.

TS NO. 367E DRAWING NO. 2 OF 2 SHEET NO. OF